

Sheet 1 of 20

FORM PTO-1449  
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.

4-31704A

APPLICATION NO.

10/081,969

APPLICANT

(Ennst, et al.)

FILING DATE

FEBRUARY 22, 2002

Group 1636

Maria Manovich

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
mm	AA	10/081,961	2/22/02	Gorziglia, et al.			
mm	AB	2001/0006633A1	7/5/01	Kirn, D.			
mm	AC	5,672,344	9/30/97	Kelley, et al.			
mm	AD	5,677,178	10/14/97	McCormick, F.			
mm	AE	5,698,443	12/16/97	Henderson, et al.			
mm	AF	5,707,618	1/13/98	Armentano, et al.			
mm	AG	5,830,686	11/3/98	Henderon, D.			
mm	AH	5,837,511	11/17/98	Falck-Pederson, et al.			
mm	AI	5,871,726	2/16/99	Henderson, et al.			
mm	AJ	5,994,128	11/30/99	Fallaux, et al.			
mm	AK	5,998,205	12/7/99	Hellenbeck, et al.			
mm	AL	6,057,299	5/2/00	Henderson, D.			

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mm	AM	WO 00/03029	1/20/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
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mm	AO	WO 00/22124	4/20/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
mm	AP	WO 00/29599	5/25/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
mm	AQ	WO 00/31286	6/2/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Adams, et al., "Transcriptional Control by E2F," <i>Seminars in Cancer Biology</i> , 6:99-108 (1995)
mm	AS	Albert, et al., "Dendritic Cells Acquire Antigen From Apoptotic Cells and Induce Class I-restricted CTLs," <i>Nature</i> , 392:86-89 (March 1998)
mm	AT	Alemayehu, et al., "Replicative Adenoviruses for Cancer Therapy," <i>Nature Biotechnology</i> , 18:723-727 (July 2000)
EXAMINER		DATE CONSIDERED
mm		2/15/04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
mm	AA	6,136,792	10/24/00	Henderson, D.			
mm	AB	6,197,293 B1	3/6/01	Henderson, et al.			
mm	AC	6,254,862 B1	7/3/01	Little, et al.			
mm	AD	6,271,207 B1	8/7/01	Cristiano, et al.			
mm	AE	6,297,219 B1	10/2/01	Nabel, et al.			
mm	AF	6,432,700 B1	8/13/02	Henderson, et al.			
mm	AG	6,436,394 B1	8/20/02	Henderson, et al.			
mm	AH	6,495,130 B1	12/17/02	Henderson, et al.			
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## FOREIGN PATENT DOCUMENTS

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mm	AM	WO 00/39319	7/6/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
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mm	AO	WO 00/47768	8/17/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
mm	AP	WO 00/56909	9/28/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
mm	AQ	WO 00/67576	11/16/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Altmann, et al., "Epothilones and Related Structures -- a New Class of Microtubule Inhibitors with Potent In Vivo Antitumor Activity," <i>Biochemica et Biophysica Acta</i> , 1470:M79-M91 (2000)
mm	AS	Angelichio, et al., "Comparison of Several Promoters and Polyadenylation Signals for Use in Heterologous Gene Expression in Cultured Drosophila Cells," <i>Nucleic Acids Research</i> , 19(18):5037-5043 (1991)
mm	AT	Armitage, J., "Emerging Applications of Recombinant Human Granulocyte-Macrophage Colony-Stimulating Factor," <i>Blood</i> , 92(12):4491-4508 (December 15, 1998)

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mm	AM	WO 00/70071	11/23/00	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
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mm	AQ	WO 01/23004	4/5/01	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Armstrong, et al., "Antitumor Effects of Granulocyte-Macrophage Colony-Stimulating Factor Production by Melanoma Cells," <i>Cancer Research</i> , 56:2191-2198 (May 1, 1996)
mm	AS	Axelrod, et al., "A Novel Oncolytic Adenovirus Encoding an IL-6/sIL-6R Fusion Protein," Abstract No. P6, presented at <i>The 10th Annual Meeting of the European Society for Gene Therapy</i> , Antibes, France, October 13-16, 2002
mm	AT	Babiss, et al., "Cellular Promoters Incorporated into the Adenovirus Genome: Effects of Viral Regulatory Elements on Transcription Rates and Cell Specificity of Albumin and $\beta$ -Globin Promoters," <i>Molecular and Cellular Biology</i> , 6(11):3798-3806 (November 1986)
EXAMINER		DATE CONSIDERED
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mm	AO	WO 01/73093	10/4/01	WIPO			<input checked="" type="checkbox"/>	<input type="checkbox"/>
mm	AP	WO 02/068627	9/6/02	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
mm	AQ	WO 94/18992	9/1/94	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Benedict, et al., "Three Adenovirus E3 Proteins Cooperate to Evade Apoptosis by Tumor Necrosis Factor-related Apoptosis-inducing Ligand Receptor-1 and -2," <i>The Journal of Biological Chemistry</i> , 276(5):3270-3278 (February 2, 2001)
mm	AS	<del>Bergsland, et al., "Shedding Old Paradigms: Developing Viruses to Treat Cancer," <i>Journal of Clinical Oncology</i>, 20(9):2220-2222 (May 1, 2002)</del> *duplicate
mm	AT	Bert, et al., "Generation of an Improved Luciferase Reporter Gene Plasmid That Employs a Novel Mechanism for High-Copy Replication," <i>Plasmid</i> , 44:173-182 (September 2000)

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mm mawich

DATE CONSIDERED

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MM	AN	WO 96/34969	11/7/96	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AO	WO 97/01358	1/16/97	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AP	WO 97/04805	2/13/97	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AQ	WO 97/48277	12/24/97	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

MM	AR	Black, et al., "Regulation of E2F: A Family of Transcription Factors Involved in Proliferation Control," <i>Gene</i> , 237:281-302 (1999)
MM	AS	Boon, et al., "Cancer Tumor Antigens," <i>Current Opinion in Immunology</i> , 9:681-683 (1997)
MM	AT	Bouvet, et al., "Suppression of the Immune Response to an Adenovirus Vector and Enhancement of Intratumoral Transgene Expression by Low-Dose Etoposide," <i>Gene Therapy</i> , 5:189-195 (1998)

EXAMINER

W. Marich

DATE CONSIDERED

2/15/00

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Ennist, et al.

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FEBRUARY 22, 2002

Group 1234

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MM	AN	WO 98/27207	6/25/98	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AO	WO 98/28469	7/2/98	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AP	WO 98/35028	8/13/98	WIPO			<input type="checkbox"/>	<input type="checkbox"/>
MM	AQ	WO 98/39464	9/11/98	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

MM	AR	Bristol, et al., "GM-CSF Containing Oncolytic Adenoviruses for the Treatment of Cancer," Abstract No. P2, presented at The 10th Annual Meeting of the European Society for Gene Therapy, Antibes, France, October 13-16, 2002
MM	AS	Bristol, et al., "GM-CSF Containing Oncolytic Adenoviruses for the Treatment of Cancer," poster presented at The 10th Annual Meeting of the European Society of Gene Therapy, Antibes, France, October 13-16, 2002
MM	AT	Bristol, et al., "GM-CSF Mediated Stimulation of Innate Anti-tumor Responses," poster presented at the Keystone Symposia, Basic Aspects of Tumor Immunology, February 17-23, 2003
EXAMINER		MM
DATE CONSIDERED		2/15/04

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1634

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mm	AQ	WO 99/28469	6/10/99	WIPO			<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Bristol, et al., "In Vivo Anti-Tumor Activity of Oncolytic Adenoviruses that Express GM-CSF in Xenograft Tumor Models," <i>American Society for Gene Therapy, 5th Annual Meeting, June 5-9, 2002</i> ; poster presented June 6, 2002
mm	AS	Bristol, et al., "In Vivo Anti-Tumor Activity of Oncolytic Adenoviruses that Express GM-CSF in Xenograft Tumor Models," <i>Molecular Therapy</i> , 5(5):abstract No. 311 (May 2002)
mm	AT	Bruder, et al., "Nuclear Factor EF-1A Binds to the Adenovirus E1A Core Enhancer Element and to Other Transcriptional Control Regions," <i>Molecular and Cellular Biology</i> , 9(11):5143-5153 (November 1989)
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	AQ						<input type="checkbox"/>	<input type="checkbox"/>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AR	Bryan, et al., "Evidence for an Alternative Mechanism for Maintaining Telomere Length in Human Tumors and Tumor-derived Cell Lines," <i>Nature Medicine</i> , 3(11):1271-1274 (November 1997)
mm	AS	Chang, et al., "Immunogenetic Therapy of Human Melanoma Utilizing Autologous Tumor Cells Transduced to Secrete Granulocyte-Macrophage Colony-Stimulating Factor," <i>Human Gene Therapy</i> , 11:839-850 (April 10, 2000)
mm	AT	Chao, et al., "Assembly of the Cleavage and Polyadenylation Apparatus Requires About 10 Seconds In Vivo and Is Faster for Strong Than for Weak Poly(A) Sites," <i>Molecular and Cellular Biology</i> , 19(8):5588-5600 (August 1999)
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AA	Chen, et al., "Antiangiogenic Gene Therapy for Cancer via Systemic Administration of Adenoviral Vectors Expressing Secreted Endostatin," <i>Human Gene Therapy</i> , 11:1983-1996 (September 20, 2000)
mm	AB	Chen, et al., "Cleavage Site Determinants in the Mammalian Polyadenylation Signal," <i>Nucleic Acids Research</i> , 23(14):2614-2620 (1995)
mm	AC	Chia, et al., "A Novel Conditionally Oncolytic Adenovirus for the Treatment of Nasopharyngeal Carcinoma (NPC)," <i>Proceedings of the American Association for Cancer Research</i> , 43:1098-1099, abstract No. 5441 (March 2002)
mm	AD	Chiocca, E., "Oncolytic Viruses," <i>Nature</i> , 2:938-950 (December 2002)
mm	AE	Christ, et al., "Modulation of the Inflammatory Properties and Hepatotoxicity of Recombinant Adenovirus Vectors by the Viral E4 Gene Products," <i>Human Gene Therapy</i> , 11:415-427 (February 10, 2000)
mm	AF	Colgan, et al., "Mechanism and Regulation of mRNA Polyadenylation," <i>Genes and Development</i> , 11:2755-2766 (1997)
mm	AG	Curiel, et al., "Strategies to Improve the Therapeutic Utility of Conditionally Replicative Adenoviruses (CRAds) for Cancer Therapy," <i>Proceedings of the American Association for Cancer Research</i> , 43:662, abstract No. 3287 (March 2002)
mm	AH	Demers, et al., "Antitumor Efficacy and Replication of an Oncolytic Adenovirus, 01/PEME, in Tumor Tissue Following Intravenous Administration," <i>Proceedings of the American Association for Cancer Research</i> , 43:663, abstract No. 3291 (March 2002)
mm	AI	Denome, et al., "Patterns of Polyadenylation Site Selection in Gene Constructs Containing Multiple Polyadenylation Signals," <i>Molecular and Cellular Biology</i> , 8(11):4829-4839 (November 1988)
mm	AJ	DeWeese, et al., "A Phase I Trial of CV706, a Replication-Competent, PSA Selective Oncolytic Adenovirus, for the Treatment of Locally Recurrent Prostate Cancer Following Radiation Therapy," <i>Cancer Research</i> , 61:7464-7472 (October 15, 2001)
mm	AK	Dong, et al., "Angiostatin-Mediated Suppression of Cancer Metastases by Primary Neoplasms Engineered to Produce Granulocyte/Macrophage Colony-Stimulating Factor," <i>J. Exp. Med.</i> , 188(4):755-763 (August 17, 1998)
mm	AL	Dong, et al., "Macrophage-Derived Metalloelastase is Responsible for the Generation of Angiostatin in Lewis Lung Carcinoma," <i>Cell</i> , 88:801-810 (March 21, 1997)
mm	AM	Doronin, et al., "Tissue-Specific, Tumor-Selective, Replication-Competent Adenovirus Vector for Cancer Gene Therapy," <i>Journal of Virology</i> , 75(7):3314-3324 (April 2001)
mm	AN	Doronin, et al., "Tumor-Specific, Replication-Competent Adenovirus Vectors Overexpressing the Adenovirus Death Protein," <i>Journal of Virology</i> , 74(13):6147-6155 (July 2000)

EXAMINER

M. Marich

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

mm	AA	Dranoff, et al., "Vaccination with Irradiated Tumor Cells Engineered to Secrete Murine Granulocyte-Macrophage Colony-Stimulating Factor Stimulates Potent, Specific, and Long-Lasting Anti-Tumor Immunity," <i>Proc. Natl. Acad. Sci. USA</i> , 90:3539-3543 (April 1993)
mm	AB	Duque, et al., "Adenovirus Lacking the 19-kDa and 55-kDa E1B Genes Exerts a Marked Cytotoxic Effect in Human Malignant Cells," <i>Cancer Gene Therapy</i> , 6(6):554-563 (1999)
mm	AC	Dyson, N., "The Regulation of E2F by pRB-family Proteins," <i>Genes and Development</i> , 12:2245-2262 (August 1998)
mm	AD	Emens, et al., "Chemotherapy: Friend or Foe to Cancer Vaccines?" Current Opinion in <i>Molecular Therapeutics</i> , 3(1):77-84 (February 2001)
mm	AE	Emery, et al., "A Chromatin Insulator Protects Retrovirus Vectors from Chromosomal Position Effects," <i>Proc. Natl. Acad. Sci. USA</i> , 97(16):9150-9155 (August 1, 2000)
mm	AF	Ennist, D., "Oncolytic Adenoviruses Containing GM-CSF for the Treatment of Cancer," oral presentation at the 4th International Conference, The Adjuvant Therapy of Malignant Melanoma, March 15-16, 2002
mm	AG	<del>Ennist, D., "Oncolytic Adenoviruses Containing GM-CSF for the Treatment of Cancer," abstract presented at the 4th International Conference, The Adjuvant Therapy of Malignant Melanoma, March 15-16, 2002</del> * duplicate
mm	AH	Ennist, et al., "Oncolytic Adenoviruses Containing GM-CSF for the Treatment of Cancer," <i>Proceedings of the American Association for Cancer Research</i> , 43:1098, abstract No. 5437 (March 2002)
mm	AI	Ennist, et al., "Oncolytic Adenoviruses Containing GM-CSF for the Treatment of Cancer," oral presentation at the 93rd Annual Meeting of the American Association for Cancer Research, April 6-10, 2002, San Francisco, California
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M. Tharisch

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ATTY. DOCKET NO.

4-31704A

APPLICATION NO.

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APPLICANT

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M. Manich

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M. Kania

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